

FIG. 1

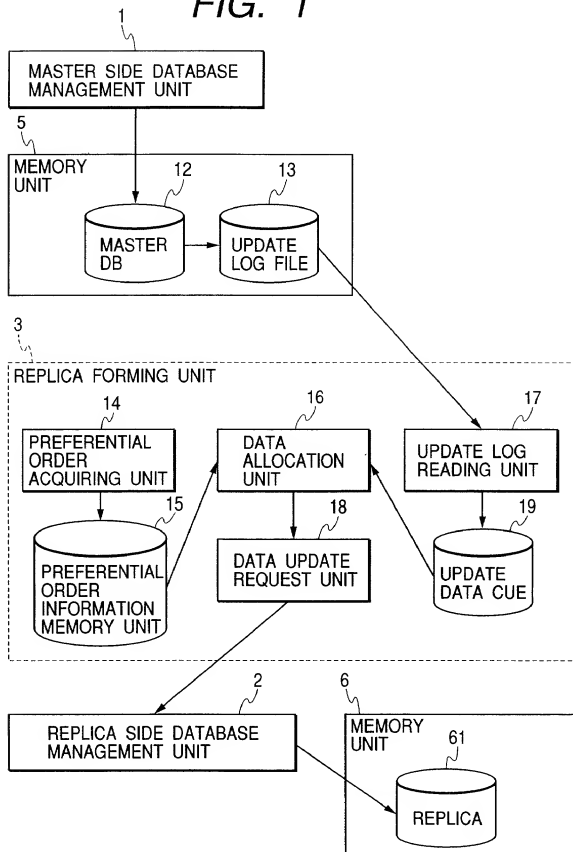


FIG. 2

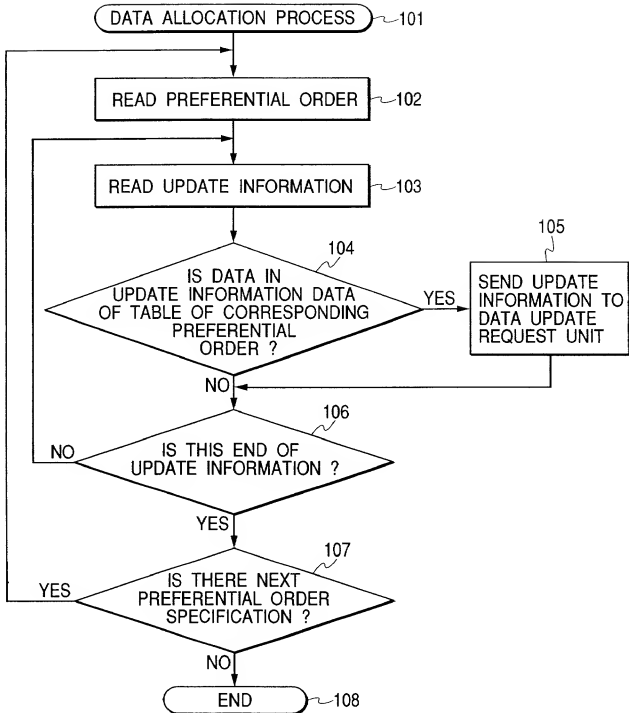
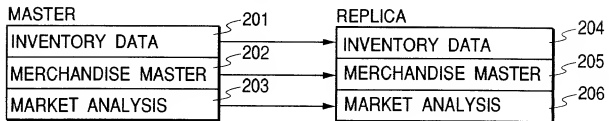


FIG. 3

TABLES THAT ARE COMPONENTS OF DATABASE



EXTRACTION SIDE TABLE	REFLECTION SIDE TABLE	PREFERENTIAL ORDER
MASTER, INVENTORY DATA	REPLICA, INVENTORY DATA	1
MASTER, MERCHANDISE MASTER	REPLICA, MERCHANDISE MASTER	2
MASTER, MARKET ANALYSIS	REPLICA, MARKET ANALYSIS	3

FIG. 4

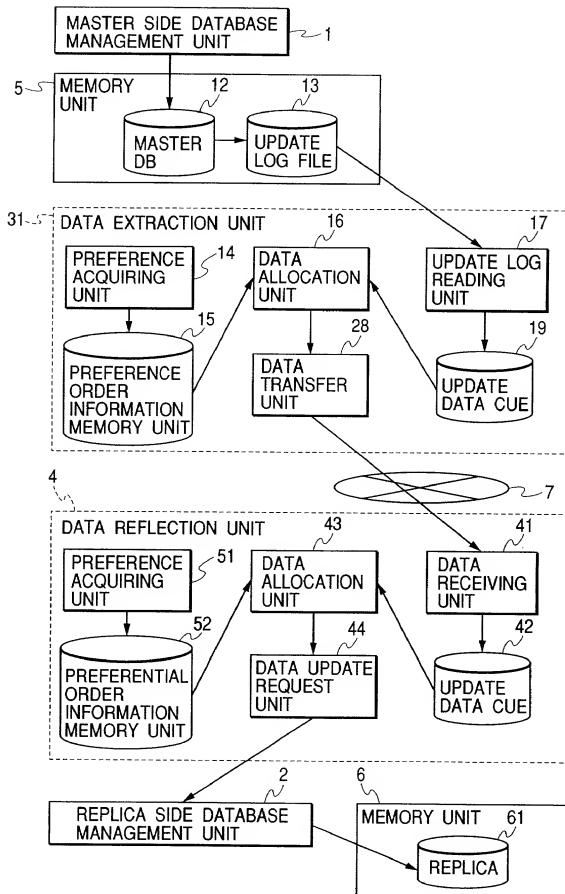


FIG. 5

INVENTORY DATA

MERCHANDISE CATEGORY	MERCHANDISE CODE	MERCHANDISE NAME	UNIT PRICE	INVENTORY
A	0001	A REFRIGERATOR	100,000	15
B	0002	B WASHING MACHINE	60,000	12
C	0032	C CLEANER	30,000	21
A	0230	B REFRIGERATOR	150,000	10

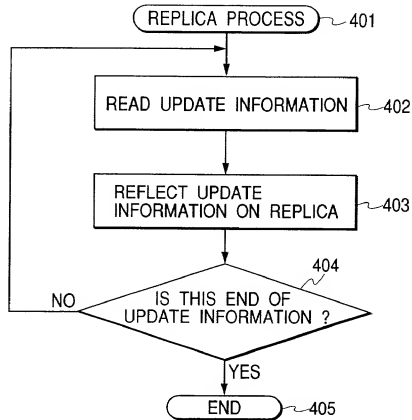
PREFERENCE SPECIFICATION a

REFLECTION TABLE	PREFERENTIAL KEY CONDITION	PREFERENTIAL ORDER
INVENTORY DATA	MERCHANDISE CATEGORY=A	1
	MERCHANDISE CATEGORY=B	2

PREFERENCE SPECIFICATION b

REFLECTION TABLE	PREFERENTIAL COLUMN	PREFERENTIAL ORDER
INVENTORY DATA	MERCHANDISE CATEGORY, MERCHANDISE CODE, INVENTORY	1
	MERCHANDISE NAME, UNIT PRICE	2

FIG. 6 PRIOR ART



UPDATE INFORMATION DATA CONTENT

501 UPDATE TABLE NAME	502 UPDATE TYPE	503 RECORD INFORMATION
INVENTORY TABLE	UPDATE	MERCHANDISE CATEGORY: A, MERCHANDISE CODE: 0001, INVENTORY: 20
MERCHANDISE MASTER	UPDATE	MERCHANDISE CODE: 0022, UNIT PRICE: 120,000
INVENTORY TABLE	UPDATE	MERCHANDISE CATEGORY: B, MERCHANDISE CODE: 0032, INVENTORY: 32
MERCHANDISE MASTER	INSERT	MERCHANDISE CODE: C, MERCHANDISE NAME: C CLEANER, UNIT PRICE: 42,000

FIG. 7

